This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

REMARKS

I. The Amendments

Applicants have amended the specification to reflect the correct SEQ ID NOs with respect to identifying polypeptides useful according to the present invention. In addition, Applicants have amended the specification to correct a typographical error and formalities.

II. The Rejection of Claims 34-37 19 Under 35 U.S.C. §102(e) May Properly Be Withdrawn

Claims 34-37 were rejected under 35 U.S.C. §102(e) for being directed to subject matter assertedly anticipated by the disclosure of Fisher et al. (U.S. Patent No. 5,922,595; hereinafter "the '595 patent").

In response, Applicants attach herewith as Appendix A a declaration pursuant to 37 C.F.R. §1.131 which was filed during prosecution of parent application U.S. Serial No. 09/256,000, now U.S. Patent No. 6,350,603. The Applicant submits that, in view of the attached declaration, the '595 patent is an improper reference against the claimed subject matter. As evidenced by the declaration, the subject matter of the claims was conceived and reduced to practice at least as early as the effective filing date of the cited patent. Accordingly, the Applicant submits that the rejection of claims 34-37 under §102(e) must be withdrawn.

CONCLUSION

The amendments include no new matter. In view of the amendments and remarks made herein, Applicant believes that claims 34-37 are in condition for allowance and respectfully request expedient notification of the same.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN LLP 6300 Sears Tower 233 South Wacker Drive Chicago, Illinois 60606-6357 (312) 474-6300

By:

Eric M. Brusca Reg. No. 52,664

April 13, 2004

PATENT Attorney Docket No: 27013/35308

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Loughney, Kate

Serial No.: 09/256,000

APR 1 9 2004

Filed: February 23, 1999

For: Phosphodiesterase 10

Group Art Unit: 1642

Examiner: R. Hutson, Ph.D.

I hereby certify that this paper is being
deposited with the United States Postal
Service as First Class mail, postage
prepaid, in an envelope addressed to:
Assistant Commissioner for Patents,
Washington, D.C. 20231, on April 26,
2000.

Joseph A. Williams, Jr., Reg. No. 28,679

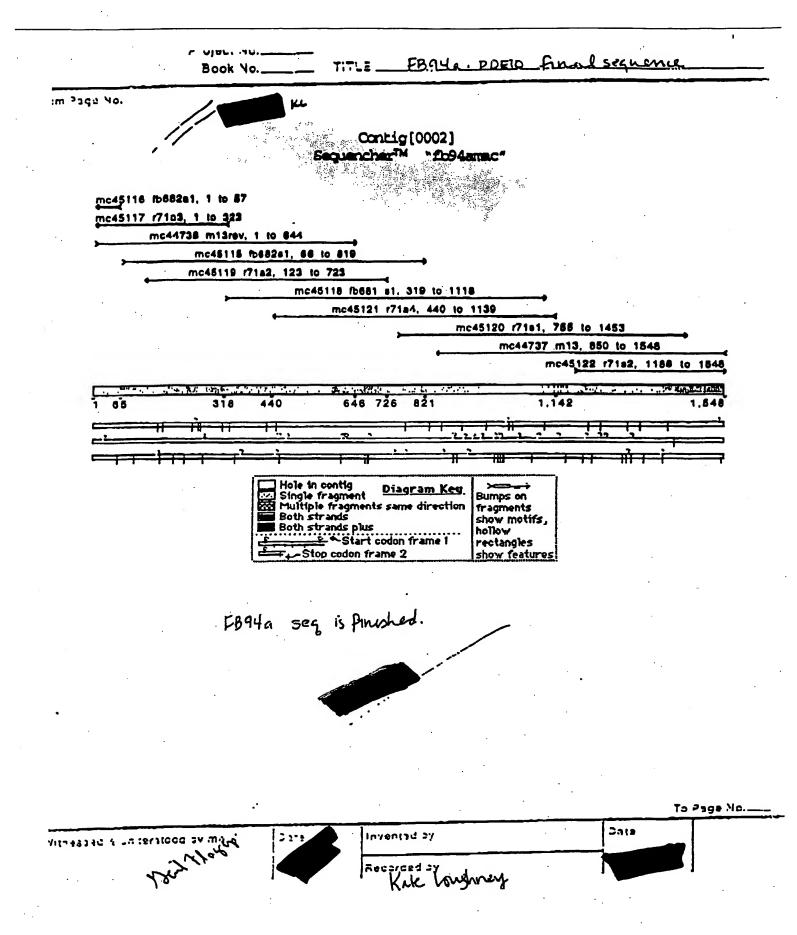
Declaration of Kate Loughney, Jad., under 37 C.F.R. §1.131

I, Kate Loughney, Ph.D., state that,

- 1. I am the sole inventor of the subject matter claimed in the above application which claims priority of U.S. Provisional Application Serial No: 60/075,508, filed February 23, 1998. I am making this declaration to provide evidence that the subject matter claimed in the above application was completed in the United States at a date at least prior to December 9, 1997, which is the effective filing date of U.S. Patent 5,922,595, cited by the Examiner in an Office Action mailed October 26, 1999.
- 2. To establish the date of completion of the invention, copies of pages from my laboratory notebook are attached as Exhibit A. Dates on these pages have been removed.
- 3. The first page in Exhibit A describes the plan for constructing an expression construct using previously isolated clone FB 94a. Clone FB 94a is described at page 28, lines 23 through 24, to encode a complete open reading frame for PDE10.

- 5. The second page in Exhibit A describes steps for growing a host cell line transformed with the completed expression construct comprising the FB 942 sequence under control of the alcohol dehydrogenase promoter as described in the specification in Example 4.
- 6. Pages 3 through 6 in Exhibit A set forth the final sequence determined for clone FB94a.
- 7. From these laboratory notebook pages, it can be seen that the subject matter of the claims in the application was completed at least before December 9, 1997.
 - 8. This declaration is submitted in response to a non-final Office Action.
- 9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information an belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by finc or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

TITLE POEICA Expression Construct - AUH2 Book No	1
From Page No	
to build expression construct pde 10.	
USE CONA FO 91a.	
lacks yellow a green regions	
Loss of yellow changes frames, uses B' met in another	frame.
MDAFRETPY K AL FO76.2	-
Sequence CONA to confirm.	
we PCR to make exact s' and.	
Hnc2	
her met R71A3 thic2 - Ecort framer	
her met 271A3 think2 - Ecorl fragment from FB940	
cut. Nw1/Hnc2	
· · · · · · · · · · · · · · · · · · ·	
-·	
-	
	•
SacI-SalI (no_sites internal) to move to ADH2 vector	
NEDI: For year -	
ACTO CATGG ACG CATT CAGA AG CONBAG 21/23 matches.	
/match./ MDAFR SRT 11-GC	
and manyatch	
Dut tas here.	To Page No.12
Vitnessed & Understood by me. Date Invented by Oate	10 1090 1101
And A him Recorded by Loughney	1



Project No._____

From Page No.___

fb94a final PARKER IN FB to 2 ON of these 2 pleces. CCCAAGGCCATCTACCTGOACATTCAGACGCATTCAGAAGCACTCCGTACAAAGTGAG
P K A I Y L D I D G R I Q K I Y Y Q 5 Z
P R P S T W T S M D A F R S T P Y X Y R
Q G R L P G H R W I R S S A L R T X D ACCTGTGGCCATCAAGCAACTCTGCCAGAGAGAAAAATTAATCCAGAGCGTGCTGGCGCA 120 T C G H Q A T L R B R R I N P E R A G A
P V A I K G L S B R E E L I Q S V L A Q
L N P S S N S P R E K N S S R A C N R R GGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAA 180 G C R A V L K S I Q N Q • T E S • S C K V A E Q V S R A V X I N E L K A E V A N L Q S S G E H S K S N N • K L K I Q I TCACTTOOCTOTCCTAGAGAAACGCOTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGA 8 L O C P A B T A G I G R T K S G G D *
H L A V L B K R V E L E G L K V V E I E
T W L B B W A W H W K D * K W W R L R Caaatocaagacataagaagatgaggaggagctggcccagaagcagcaggac 300 EMQ: HIEGGAGGOKQQD KCKIDIKKMREELAARSSRT NANVTLRR*GRSWRPEAAGP CNACTOCCCTOTAAGTACAGTTTTTTTGGATAACCACAAGAAGTTGACTCCTCGACGCGA 360 QLPLVQFFG PQEVDSSTR MGPCKYSFLDNHKKLTPRRD TAPVETVPWITTRS+LLDAM TOTTCCCACTTACCCCAGTACCTGCTCTCTCCAGAGACCATCGAGGCCCTGCGGAAGCC 420 CILLIPOVPALSRDHRGPAEA VPTVPKYLLSPETIEALRKP VPLTPSTCSLQRPSRPCGSR CACCT TO ACCT CTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTA 480 TO V W L WE PNEMLSCLEHM ? GFGSPMRC* CCACCACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCCTCAGGAGGTGGCT 540 PRAGQGLQHQPCHPQEVA HDLGLVRDFSINPVTLRRWL NOLGLVRDFSINPVTLRRWL TTSGWSGTSASTLSPSGGGC OTTCTGCGTCCACGACAACTACAGAAACAACCCCTTCCACAACTTCCGGCACTGCTTCTG 600

To Page No ...

从下被编纂

Mithessed 1 Understood by me.



Recorded by

Recorded by

Rake Loughney

VLRPRQLQKQPLPQLPALLL FCVHDNYRNNPFHNFRHCFC

Oate

Racordes sy Wushney

1320

FB94a- PDE 10. Final scaling

: .: " 3 1Ce 40 .-

FB76.3

harmed 100

FRAM sura

80 m. B הבי הלאים הבי הקופהן

GCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGGATAGATGACGC A A A T L G I F R S L R G A E A D R °
L Q P L W E S R D R Y E E L R R I D D
C S H F G N P E I A T R S ° S G ° M T

Catgaaagagttacagaagagactgacagcttgacgtctggggccaccgagaagtccag 1380 HERVTEED ° (RETADER 3 L

AGGGAGAAGCAGATGTGAAAAACAGTGAAGGAGACTGTGCCTGAGGAAAGCGGGGGGC 1440 REKQREEKO°RRLCLRKAGO GRSRDVKNSEGDCAOGKRGA GEAEM°KTVKETVPEESGG GTGGCTGCAGTTCTGGACGGCTGGCCGAGCTGCGCGGATCCTTGTGCAGGGAAGAGCT 19 PAR. 3 1500 VAAVLDGLABLRGILVQGR WLQFHTØNPSCAGSLCREE GCSSGAAGRAARDPCAGKS

GCCCTGGGCACCTGOCACCACAAGACCATGTTTTCTAAGAACCATTTT ALGTHHHKTMFSKNHF PHAPOTTRPCFLRTI POHLAPQDHVF°EPF

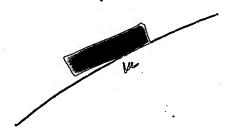
> met at 26-stop at 1124. 466 a.a. 54367 Da

with flastog 475 aa M.DYKOODOK-55 N93 PDEID.

1548

when compared to other POES 2950 match PDEH's. HOLD & P CNIF

24 match to rod a in same region W/gaps



To Pago No.

Witnessad & Understood by me.

Invented by

ROCOPEDE by brightly

Date